HAI OmniTouch® 10p

10” Portable Color Touchscreen
User’s Manual

Trademarks

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2009 • Home Automation, Inc.

Regulatory Compliance Statements

FCC Statement

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

(Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Canada-Industry Canada (IC)

The wireless radio of this device complies with RSS 139 & RSS 210 Industry Canada. This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B conforme á la norme NMB-003 du Canada.

Europe-European Union Notice

Radio products with the CE alert marking comply with the R&TTE Directive (1999/5/EC) issued by the Commission of the European Community. Compliance with this directive implies conformity to the following European Norms (in brackets are the equivalent international standards).

- EN 60950-1 (IEC60950-1) - Product Safety
- EN 300 328 Technical requirement for radio equipment
- ETS 301 489 General EMC requirements for radio equipment.

Products that contain the radio transmitter are labeled with CE alert marking and may also carry the CE logo.

Safety

Use the following safety guidelines to help protect yourself and the OmniTouch 10p.

- Do not attempt to service the OmniTouch 10p yourself.
- Always follow installation instructions closely.
- Be sure that nothing rests on the AC adapter's power cable and that the cable is not located where it can be tripped over or stepped on.
- Do not cover the AC adapter with papers or other items that will reduce cooling; also, do not use the AC adapter while it is inside a carrying case.
- Use only the AC adapter, power cord, and batteries that are approved for use with this unit. Use of another type of battery or AC adapter may cause risk of fire or explosion.
- If you use an extension cable with the AC adapter, ensure that the total ampere rating of the products plugged in to the extension cable does not exceed the ampere rating of the extension cable.
- When you move the OmniTouch 10p between environments with very different temperature and/or humidity ranges, condensation may form on or within the OmniTouch 10p. To avoid damaging the OmniTouch 10p, allow sufficient time for the moisture to evaporate before using the OmniTouch 10p.
- When you disconnect a cable, pull on its connector or on its strain relief loop, not on the cable itself. As you pull out the connector, keep it evenly aligned to avoid bending any connector pins. Also, before you connect a cable make sure both connectors are correctly oriented and aligned.

RTC Battery/Battery Safety

- There is a risk of explosion if the battery is replaced by an incorrect type.
- Dispose of used batteries according to the manufacturer's instructions.
- Do not dispose of batteries in a fire. They may explode. Check with local authorities for disposal instructions.

CAUTION! The battery used in this device may present a risk of fire or chemical burn if mistreated. Do no disassemble, heat above 60 degree C, or incinerate. Replace battery with HAI P/N: 67A03-1 (46-12427-041) only. Use of another battery may present a risk of fire or explosion.

Battery Charge Notice

It is important to consider the environment temperature whenever you are charging the Lithium-Ion battery pack. The process is most efficient at normal room temperature or slightly cooler. It is essential that you charge batteries within the stated range of 0°C to 50°C. Charging batteries outside of the specified range could damage the batteries and shorten their charging life cycle.

Storage and Safety Notice

Although charged Lithium-Ion batteries may be left unused for several months, their capacity may be depleted due to build up of internal resistance. If this happens they will require recharging prior to use. Lithium-Ion batteries may be stored at temperatures between-20°C to 50°C, however they may be depleted more rapidly at the high end of this range. It is recommended to store batteries within normal room temperature ranges.

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Chapter 1
Introducing the OmniTouch 10p

Thank you for purchasing the OmniTouch 10p Portable Touchscreen. The durable OmniTouch 10p is a customizable touchscreen that allows you to control all capabilities of an HAI Omni IIe, OmniPro II, Lumina, or Lumina Pro home control system.

The high performance processor incorporates an additionally graphic controller to provide speed and efficiency when in use, while using minimal power to extend battery life.

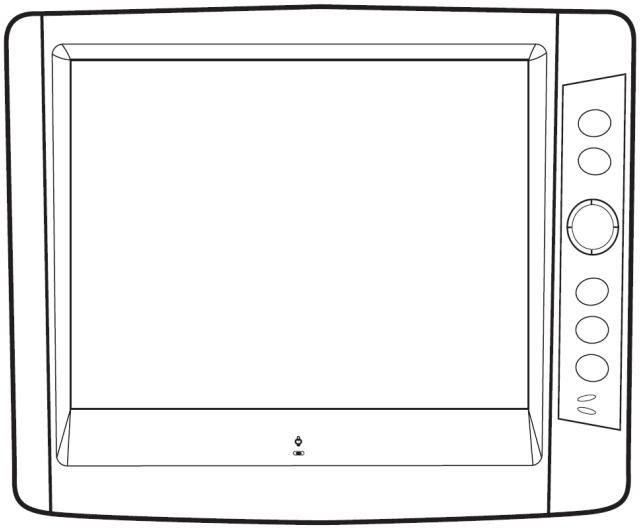
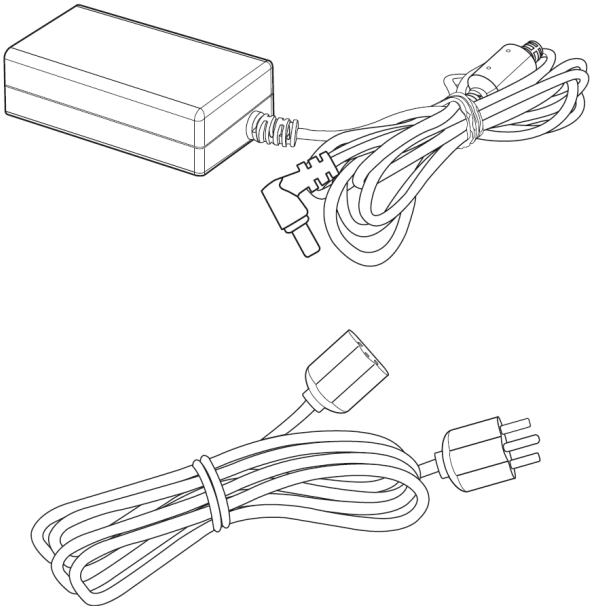
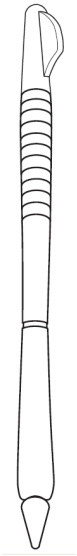
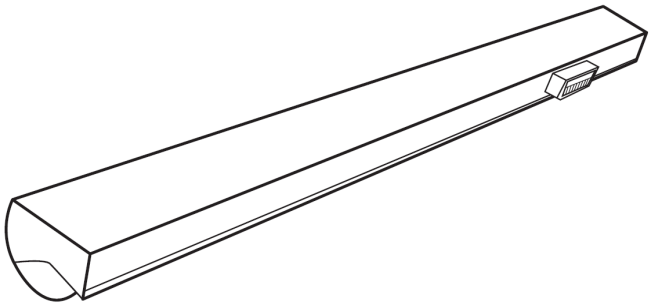
The OmniTouch 10p is equipped with I/O ports to provide ample connectivity. The OmniTouch 10p supports 802.11a/b/g Wireless LAN.

The OmniTouch 10p uses the Windows XP operating system. Five programmable function buttons and a navigation pad make it easy to interact with your home control system. A software keyboard included enables you to enter and edit text.

The OmniTouch 10p is sealed to meet IP53 standards and has undergone multiple 70cm drop tests.

Package Contents

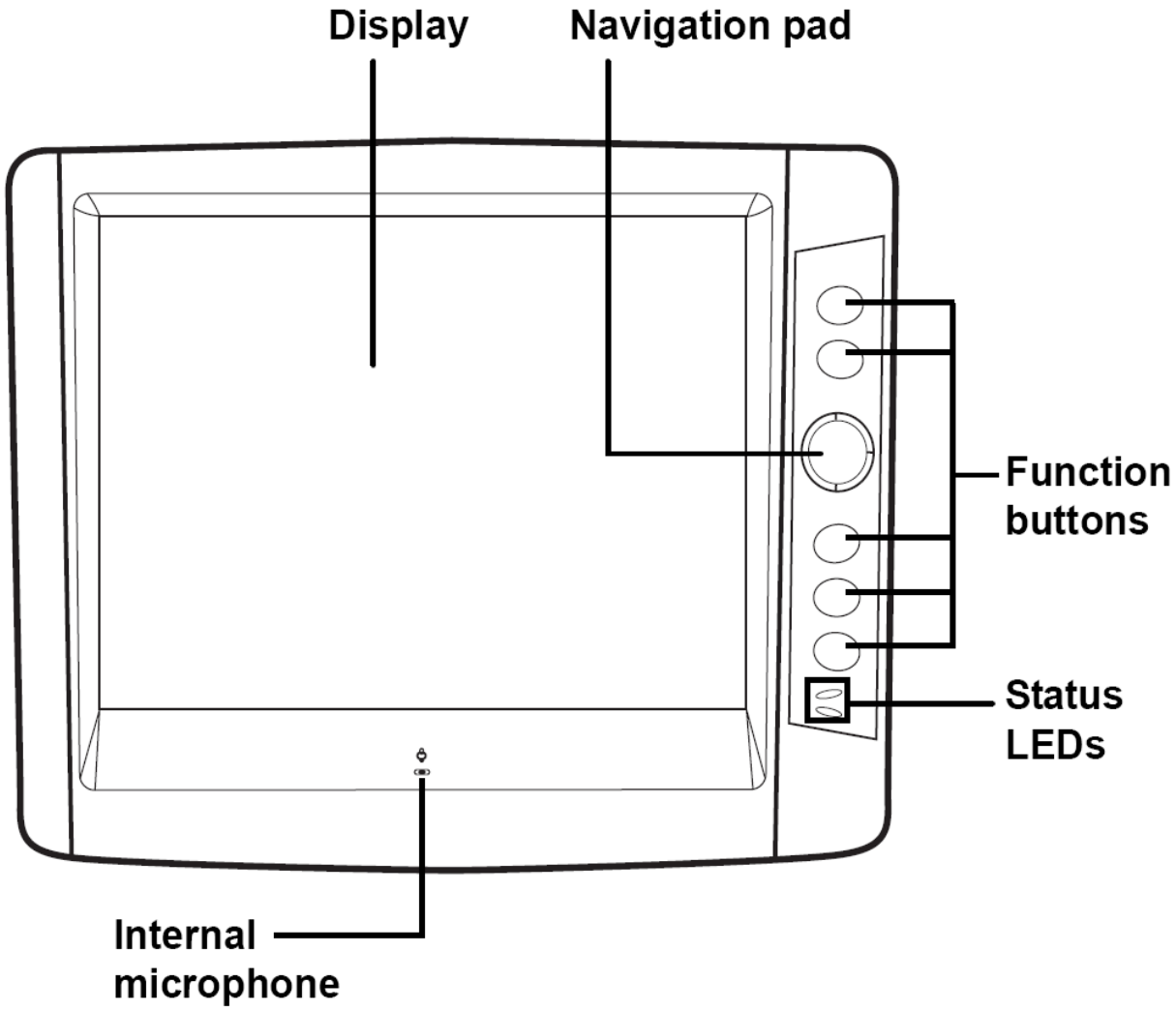
After opening the box, ensure the following accessories for the OmniTouch 10p are present:

	
OmniTouch 10p	**AC adapter and power cord**
	
Stylus	**Battery**

OmniTouch 10p Overview

The following sections describe the main components of the OmniTouch 10p.

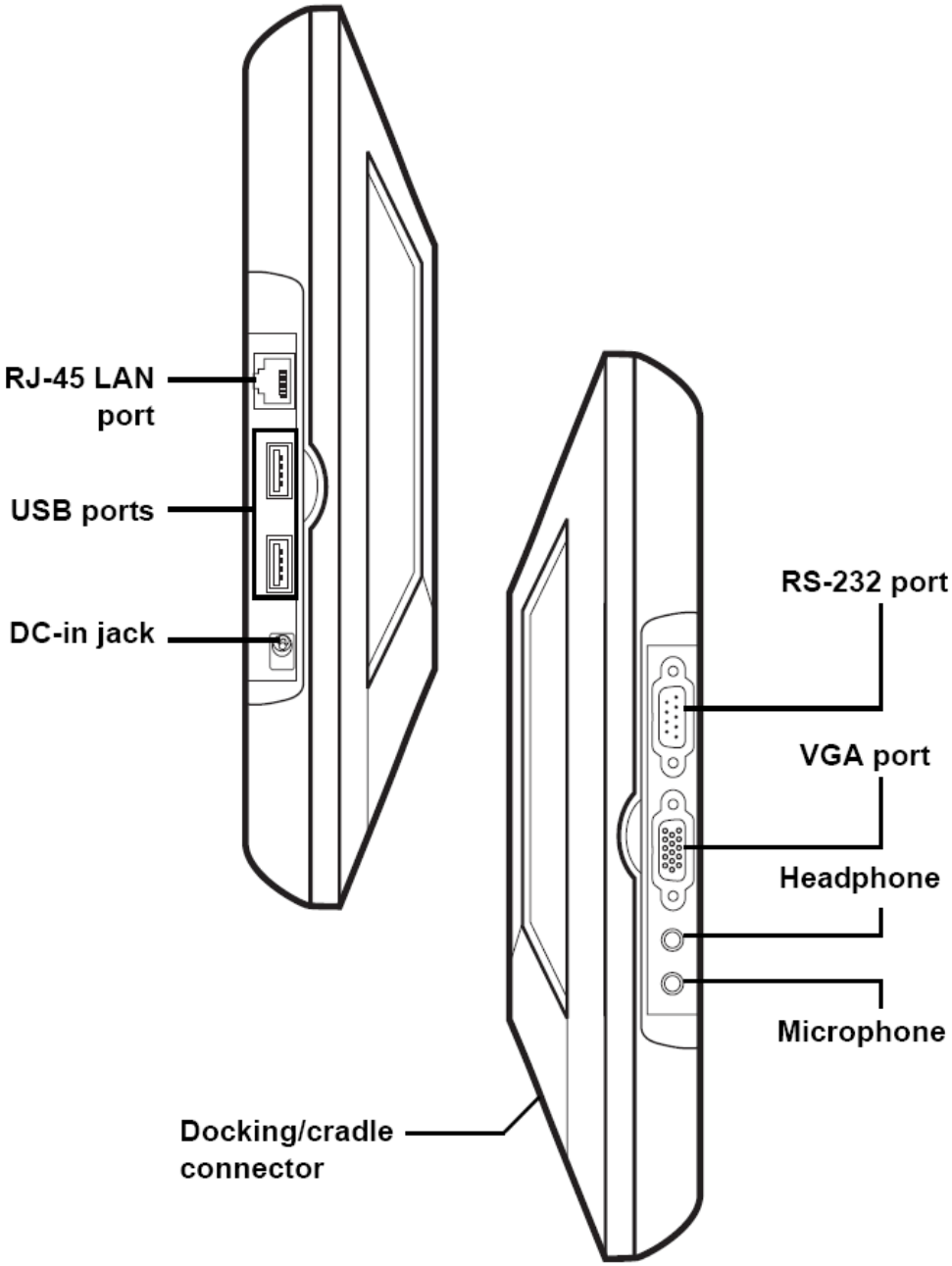
Front View



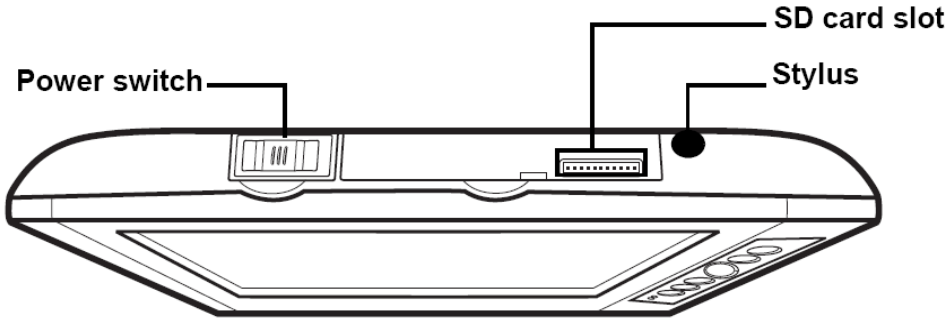
Front View Description

Component	Description
Display	Displays the OmniTouch 10p Touchscreen application. It is touch sensitive and responds to the stylus or a finger
Navigation pad	Using HAI Automation Studio, the function for each position of the Navigate pad can be programmed to perform a task.
Function buttons	Using HAI Automation Studio, each Function button can be programmed to perform any task.
Status LEDs	Indicates the status of the wireless network and battery charging power. **Wireless LAN LED (top)** • **Off:** Wireless LAN Disabled / No HDD Access • **Solid green:** Wireless LAN Activated / Transmission in progress • **Blinking orange:** accessing HDD **Power LED (bottom)** • **Off:** power is off • **Solid green:** battery is charged (30%-100%) in power mode. In power off mode, battery is charging when AC is connected. • **Blinking green:** AC power is connected and battery is charging. • **Solid orange:** power is on and battery is low (10%-30%). • **Blinking orange:** power is on and battery is very low (less than 10%). The OmniTouch 10p will auto-suspend when the battery reaches 3% battery charge.
Microphone	Enables you to speak into the OmniTouch 10p (for future use).

Left and Right View



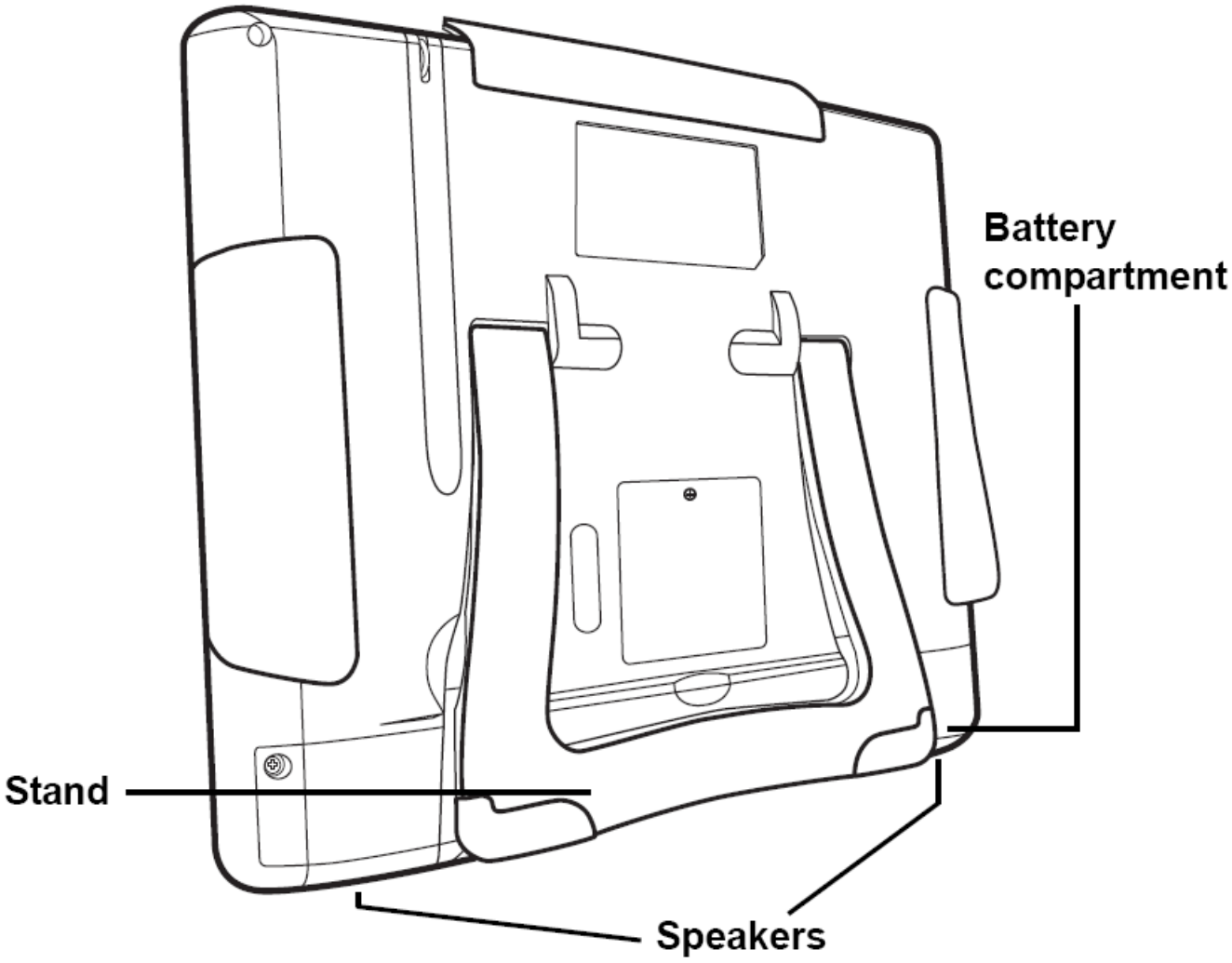
Top View



Left, Right, and Top View Description

Component	Description
RJ-45 port	This port connects to the local network (LAN).
USB ports	These ports connect to USB devices. Connect USB type A connectors to these ports.
Power jack	The AC adapter connects to this jack to supply power to the OmniTouch 10p and to charge the battery.
RS-232 port	This port connects to a serial device for serial communications. Connect a female DB-9 connector to this port.
VGA port	This port connects to an external monitor
Headphone jack	This jack connects to audio line-level devices (e.g. headphones).
Microphone jack	This jack enables you to speak into the OmniTouch 10p with an external microphone (for future use).
Docking/Cradle connector	This connector connects to the optional OmniTouch 10p cradle which enables you to charge the battery and connect USB devices.
Power switch	Slide this switch to turn the OmniTouch 10p on and off.
SD card slot	Accommodates Secure Digital (SD) memory cards. See "*Inserting an SD Memory Card*" in this document.
Stylus	The stylus can be used when interacting with the operating system, configuring the network settings, using the software keyboard, browsing the Internet, or on any screen where it is more suitable. Remove the stylus from the holder and use it the same way you would use a pen.

Back View

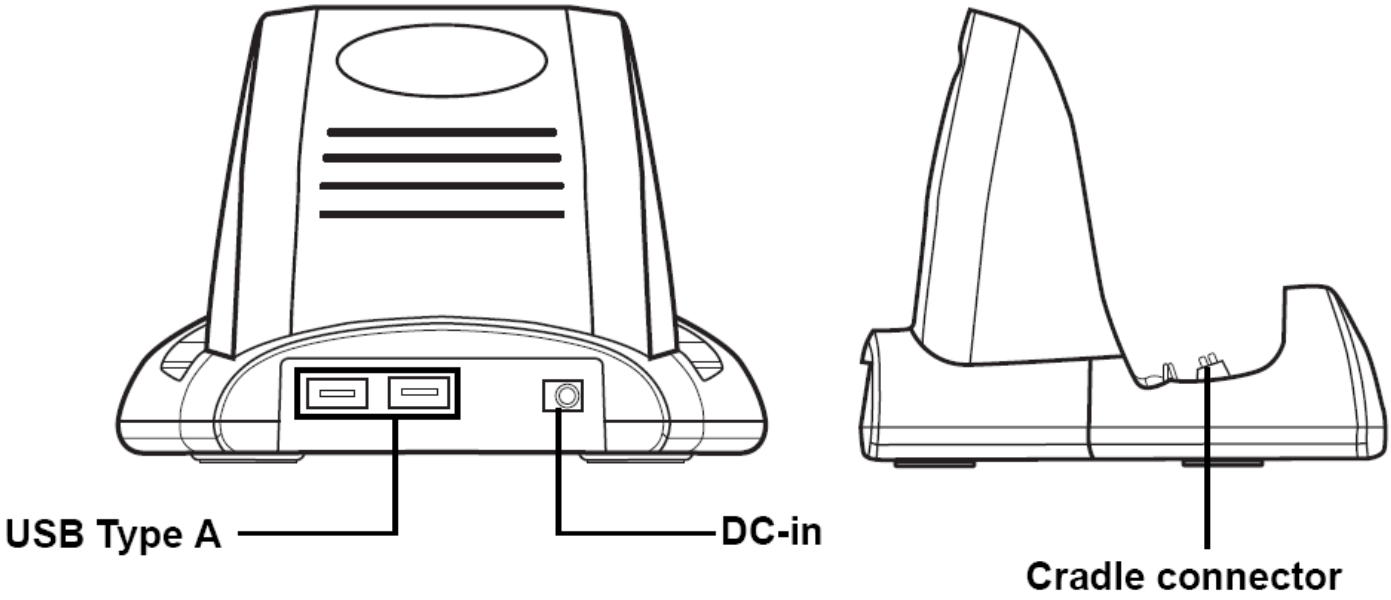


Back View Description

Component	Description
Speakers	Enables you to hear audio from the OmniTouch 10p.
Stand	This stand can be used to erect and adjust the viewing angle of the OmniTouch 10p on a sturdy and level surface.
Battery compartment	This compartment houses the removable and rechargeable battery pack. See "*Installing the Battery*" in this document.

About the Optional Docking Cradle

The optional 67A01-1 OmniTouch 10p Docking Cradle is used to secure the OmniTouch 10p in an upright position, while providing power to the unit, charging the battery, and connecting to connected USB devices. When the optional 67A01-1 Docking Cradle is used, the OmniTouch 10p Touchscreen should be placed in the cradle while it's not in use.



Component	Description
USB ports (host)	These ports connect to USB devices. Connect USB type A connectors to these ports.
Power jack	The AC adapter connects to this jack to provide power to the OmniTouch 10p and to charge its battery when it's inserted into the docking cradle.
Cradle connector	The OmniTouch 10p is inserted into this connector to power the unit, to charge the battery, and to connect to USB devices.

Chapter 2
Getting Started

This chapter explains how to install and charge the battery, how to check battery status, how to turn on the OmniTouch 10p, and how to calibrate the screen.

Installing the Battery

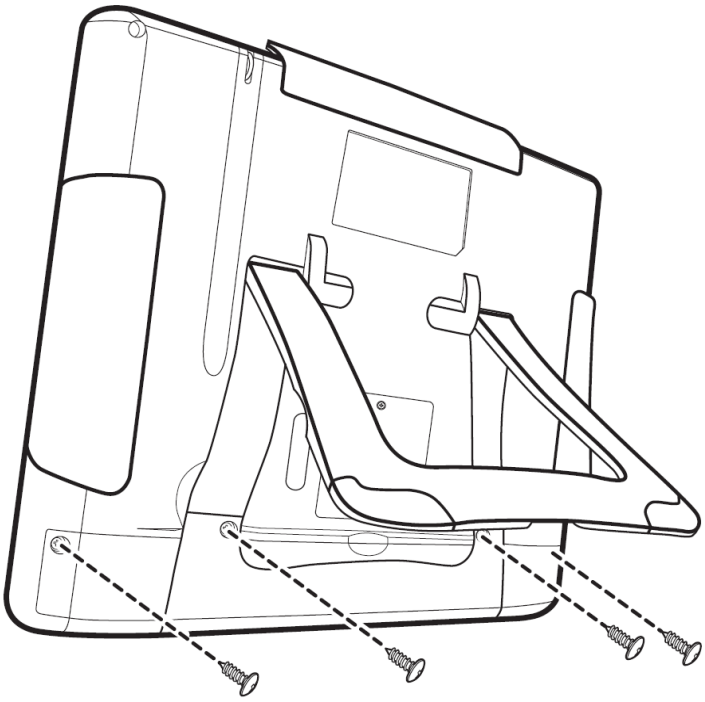
This section explains how to install the battery.

WARNING! There is a risk of fire and burns if the battery pack is handled improperly. DO NOT disassemble, crush, puncture, short external contacts, or dispose the battery pack in fire or water. DO NOT attempt to open or service the battery pack. Dispose of used batteries according to local recycling guidelines in your area.

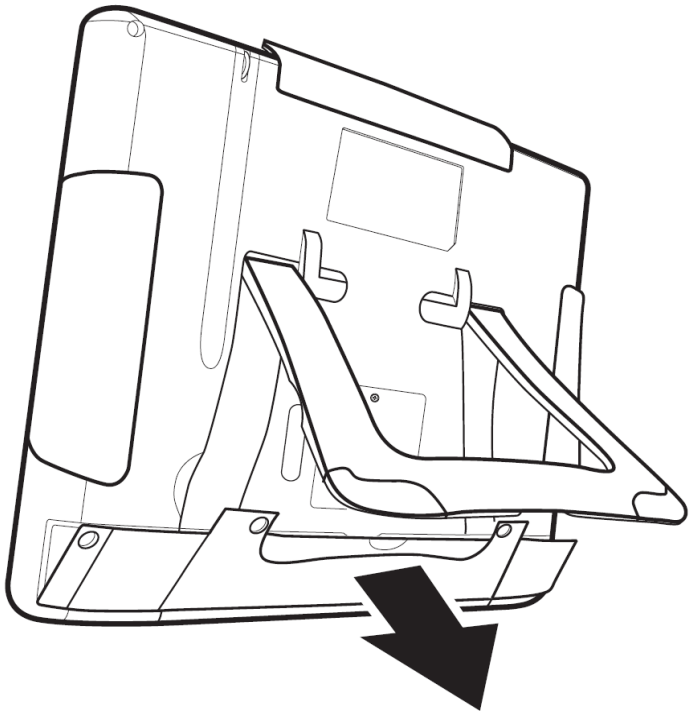
CAUTION! The battery used in this device may present a risk of fire or chemical burn if mistreated. Do no disassemble, heat above 60°C, or incinerate. Replace battery with HAI P/N: 67A03-1 (46-12427-041) only. Use of another battery may present a risk of fire or explosion.

1. Lift the stand out of the way.

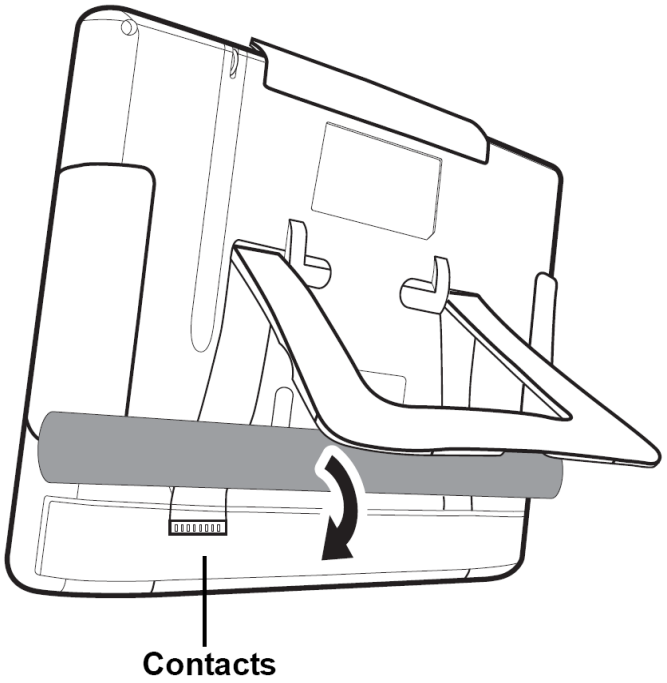
2. Remove the four screws that secure the battery compartment cover to the chassis.



3. Pull up at the lip of the battery compartment cover and remove the cover.



4. Align the battery pack, making sure the battery contacts are aligned with the contacts in the compartment and place the battery in the compartment as shown in the following illustration.



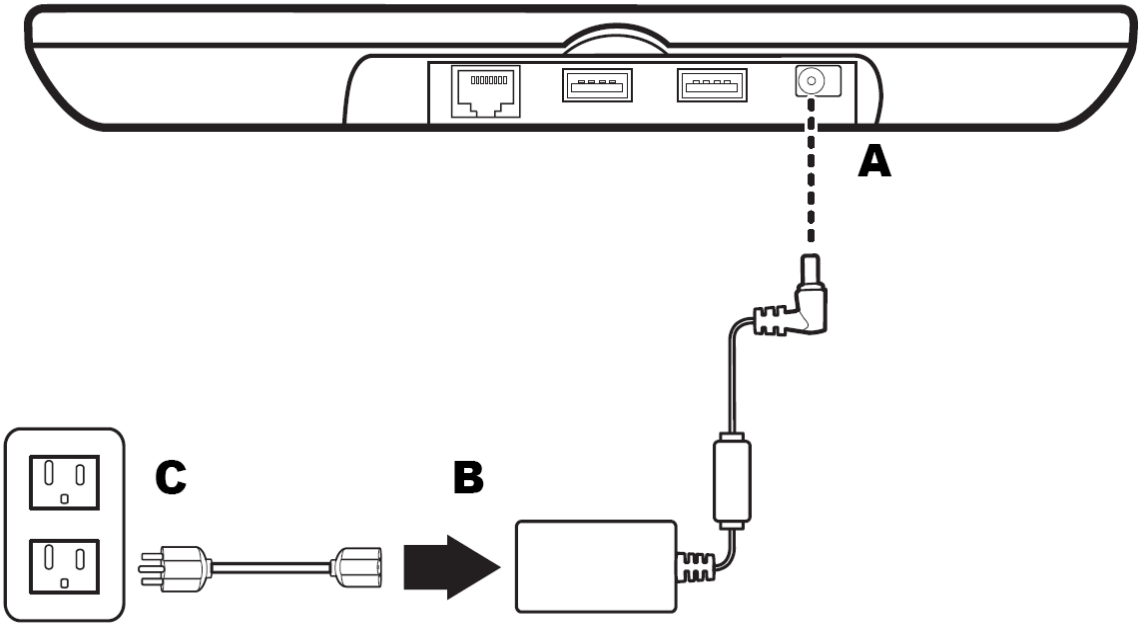
5. Replace the battery compartment cover.

Charging the Battery

Before using the OmniTouch 10p for the first time, you need to charge it for about 2 hours. Charge the OmniTouch 10p using the AC adapter or the optional Docking Cradle.

Charging the Battery Using the AC Adapter

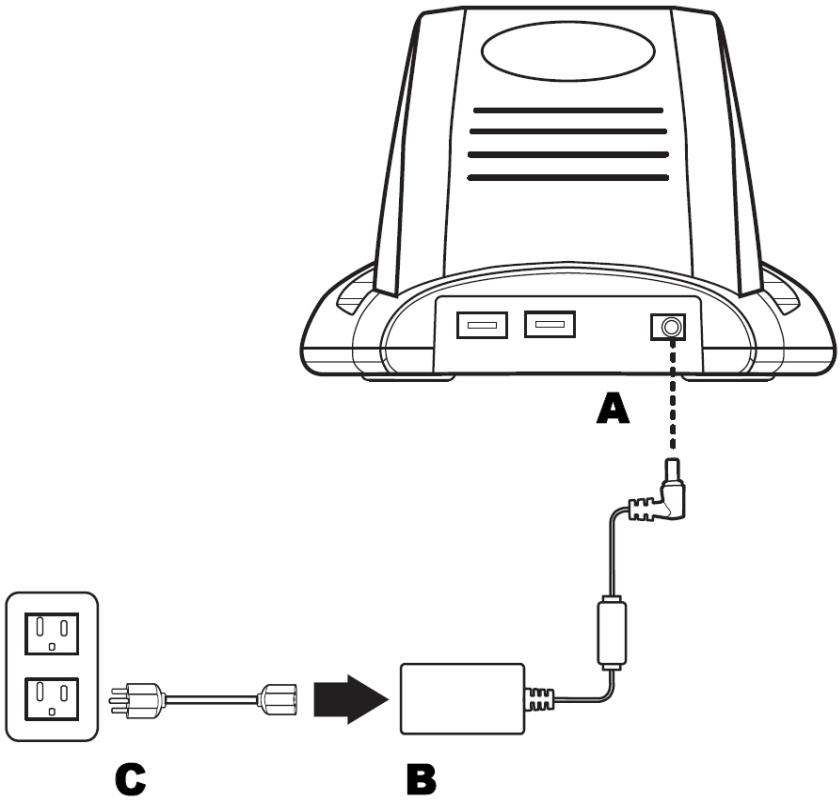
1. Plug the AC adapter cable into the Power jack on the OmniTouch 10p (A).



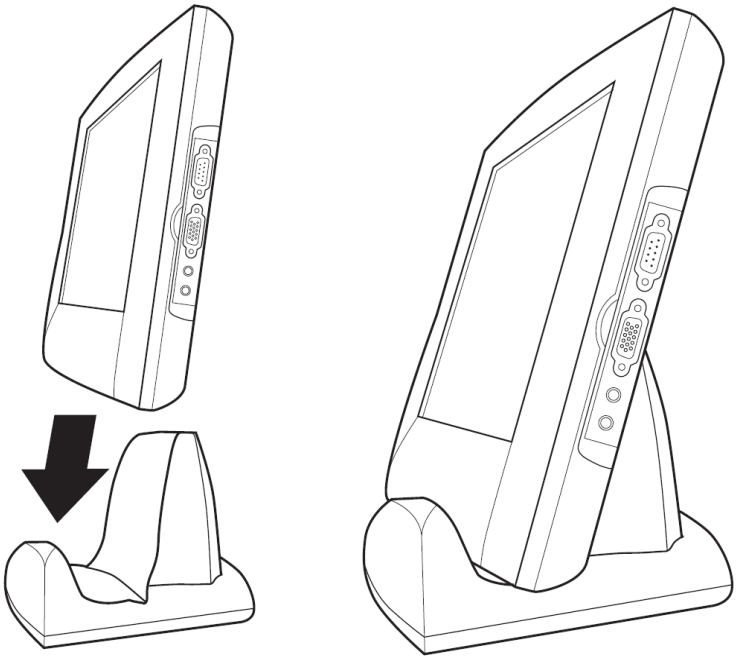
2. Plug the power cable connector into the AC adapter (**B**)
3. Plug the AC adapter into an electrical outlet (**C**).

Charging the Battery with the Optional Docking Station

1. Plug the AC adapter cable into the power jack on the optional docking station (A).
2. Plug the power cable connector into the AC adapter (B)
3. Plug the AC adapter into an electrical outlet (C).



4. Open the Docking/Cradle connector cover and place it into the housing.



5. Slide the device into the Docking Cradle until it snaps into place.

6. The connection is secure when the bottom edge of the OmniTouch 10p is aligned with the docking station and the LED indicator on the device lights up green.

Power LED Status

LED	Description
Off	Power is off
Solid green	Power is on and battery is charged. or Power is off, AC power is connected, and battery is charging.
Blinking green	Power is on, AC power is connected, and battery is charging.
Solid orange	Power is on and battery charge is low (10%-30%).
Blinking orange	Power is on and battery charge is very low (less than 10%). The OmniTouch 10p will auto-suspend when the battery reaches 3% battery charge.

Checking the Battery Status

If the battery level becomes low in the course of normal use, a status icon appears on the device screen indicating low or very low battery status. In both cases recharge your device as soon as possible.

Turning On the OmniTouch 10p for the First Time

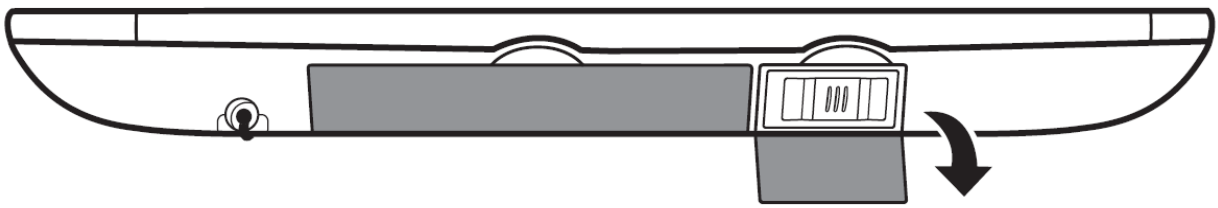
After you have initially charged the OmniTouch 10p for about 2 hours, it is ready to be used. When you turn on the OmniTouch 10p for the first time, you should calibrate the display, setup the wireless network, and set up the system time zone, date, and time before connecting to the HAI controller.

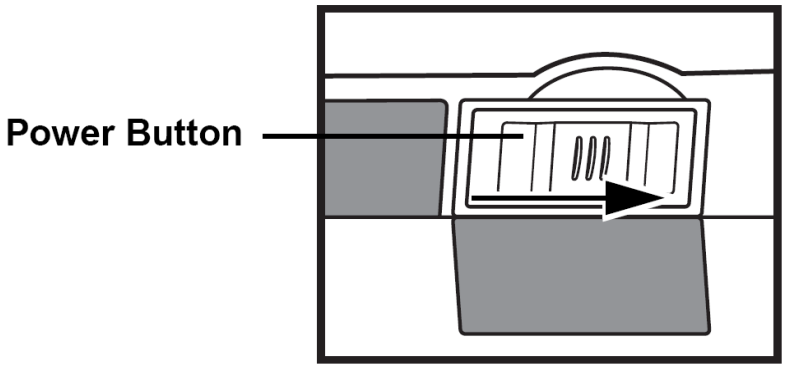
NOTE:

The OmniTouch 10p ships with a protective plastic film. You may remove this if desired by peeling from one corner. The screen will be susceptible to scratching without the film.

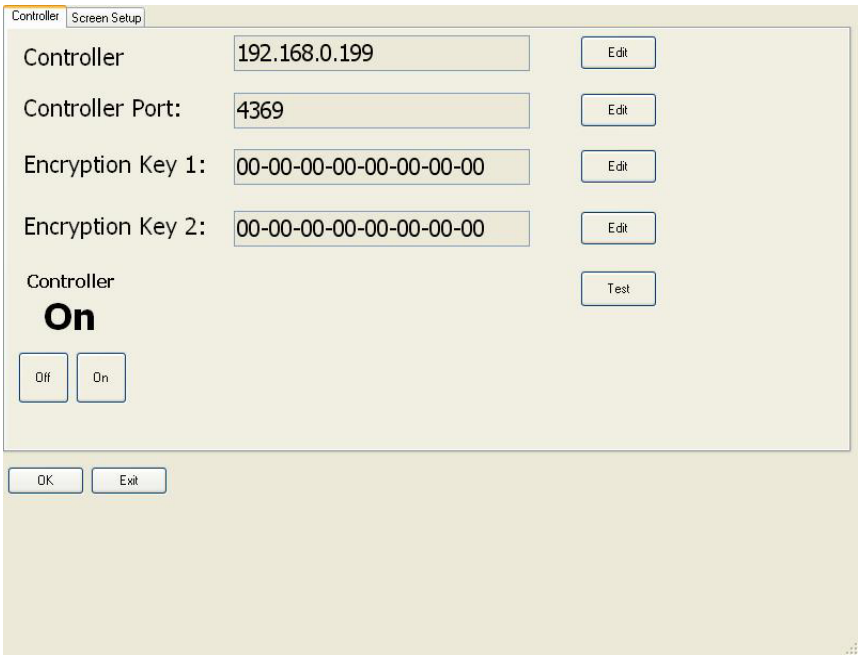
Powering On

1. Turn on the OmniTouch 10p by sliding the power button on the top of the unit.





2. When the OmniTouch 10p starts up for the first time, the OmniTouch 10p configuration screen will be displayed:



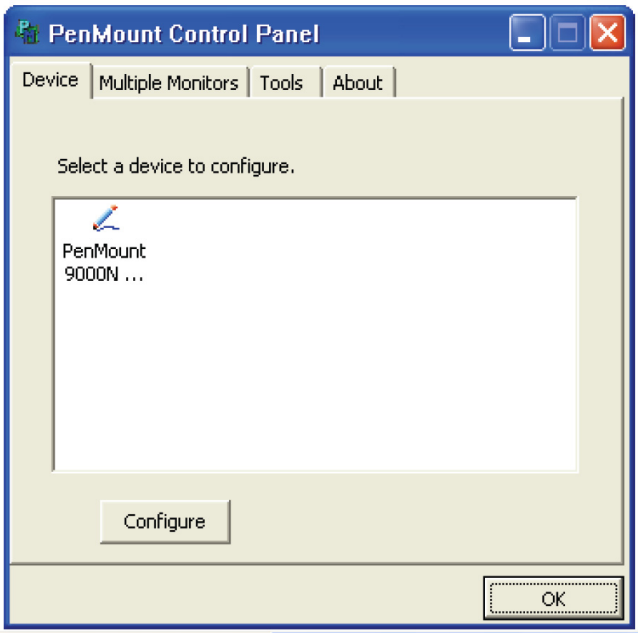
3. Press the [Exit] button to exit the application so that you can calibrate the display, setup the wireless network, and set up the system time zone, date, and time before connecting to the HAI controller.

Calibrating the OmniTouch 10p Screen

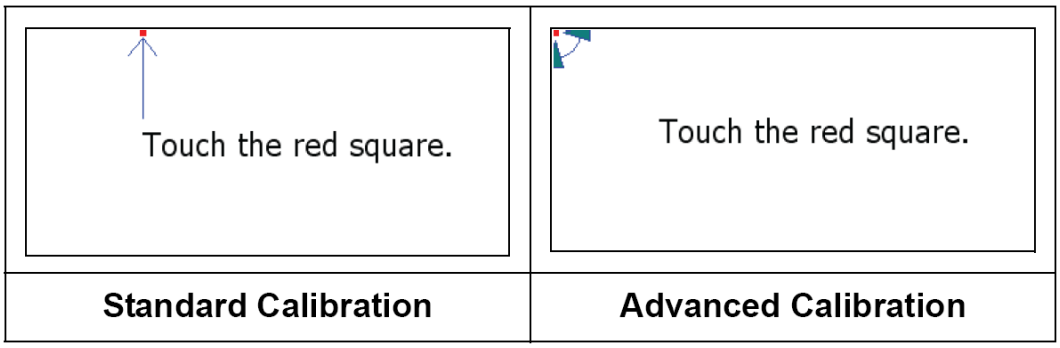
The PenMount Control Panel is used to calibrate the OmniTouch 10p screen as follows:

1. Using the stylus, tap the PenMount Control Panel icon in the system tray.
2. Tap Control Panel to open the PenMount Control Panel.

3. On the PenMount Control Panel window, tap the Device tab, and then tap “Configure".



4. Tap the Calibrate tab, and then tap “Standard Calibration” or “Advanced Calibration”. The two calibration screens are shown:



5. Standard Calibration provides fewer data points to calibrate the screen. Use Advanced Calibration to increase the accuracy of the calibration.

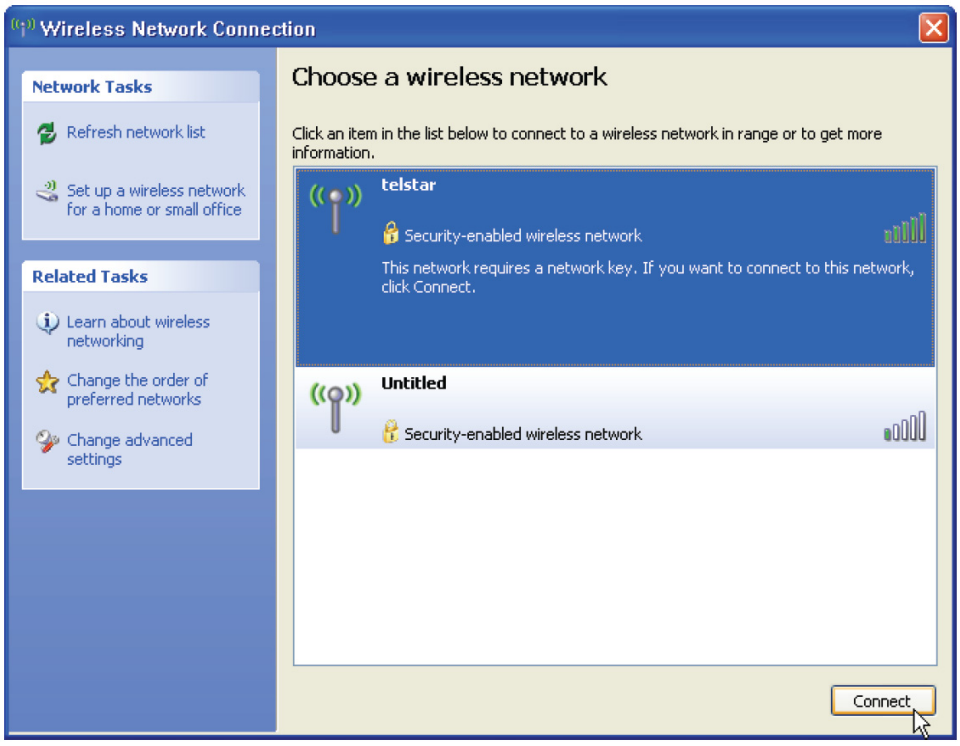
6. Touch and hold the red squares and follow the instructions on the screen to calibrate the stylus.

Configuring the Wireless Network

The embedded wireless network module in the OmniTouch 10p allows you to connect to the HAI controller and to the Internet over a wireless network.

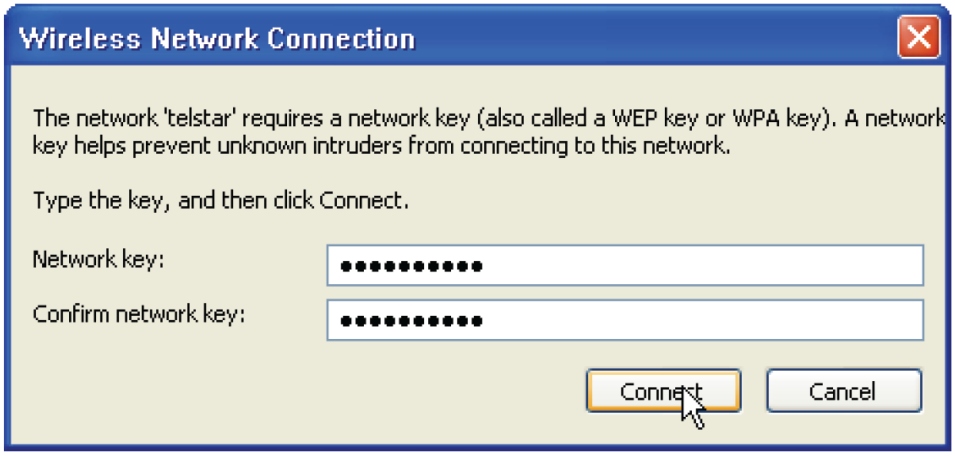
A wireless network can be added either when the network is detected or by manually entering the settings information.

1. Tap the wireless connection icon in the system tray.


Wireless Network Connection
Network Tasks
Refresh network list
Set up a wireless network for a home or small office
Related Tasks
Learn about wireless networking
Change the order of preferred networks
Change advanced settings
Choose a wireless network
Click an item in the list below to connect to a wireless network in range or to get more information.
telstar
Security-enabled wireless network
This network requires a network key. If you want to connect to this network, click Connect.
Untitled
Security-enabled wireless network
Connect

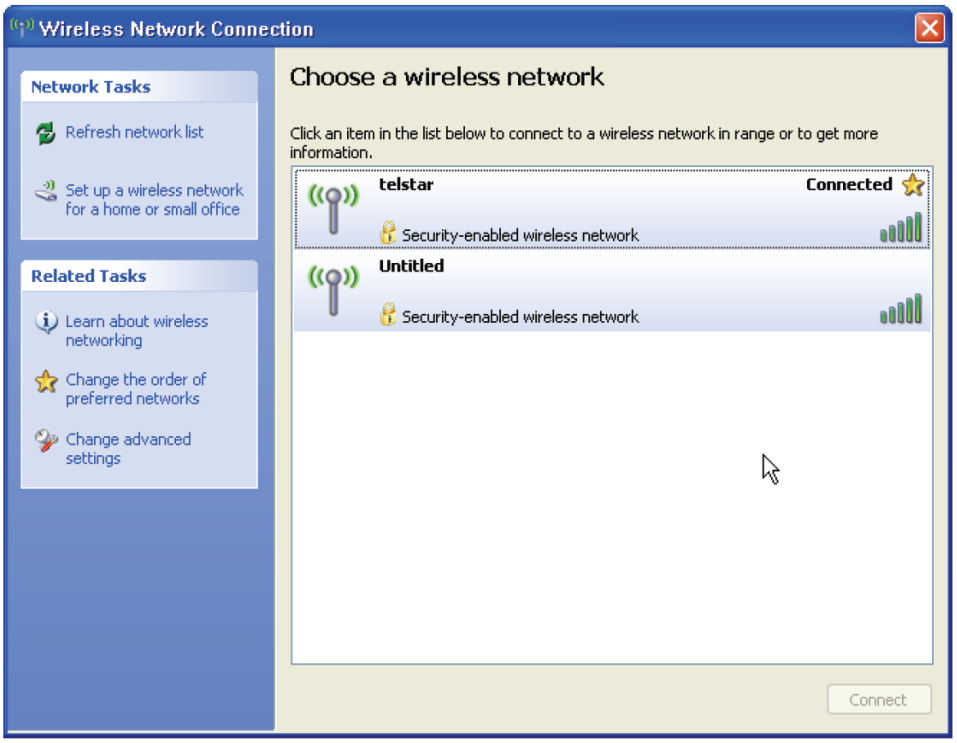
2. Select one of the wireless connections and tap Connect.

3. When connecting to a secure network, you are prompted to enter a network key.


Wireless Network Connection
The network 'telstar' requires a network key (also called a WEP key or WPA key). A network key helps prevent unknown intruders from connecting to this network.
Type the key, and then click Connect.
Network key:
Confirm network key:
Connect
Cancel

4. Enter the required network key and reenter the key for confirmation and then tap “Connect”.

5. The wireless connection is negotiated. Once connected, you will see the following: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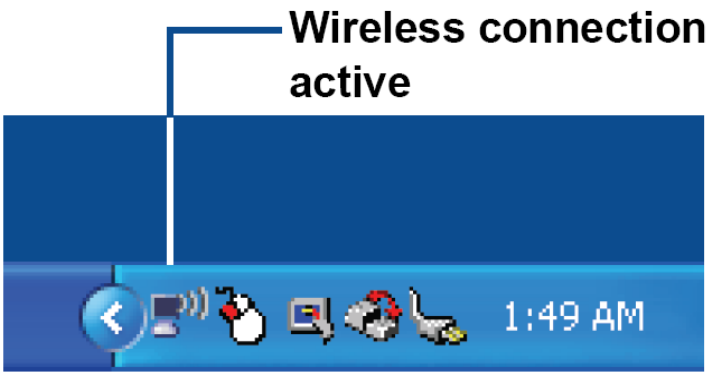
Click an item in the list below to connect to a wireless network in range or to get more information.
telstar
Connected
Security-enabled wireless network
Untitled
Security-enabled wireless network
Connect

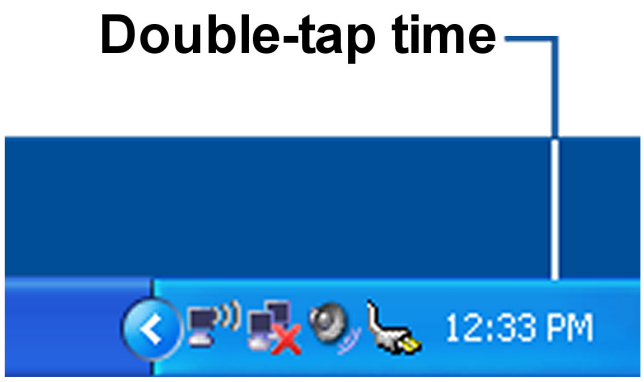
The Wireless Network Connection icon in the system tray indicates that a wireless connection is active.



Setting the Time and Date

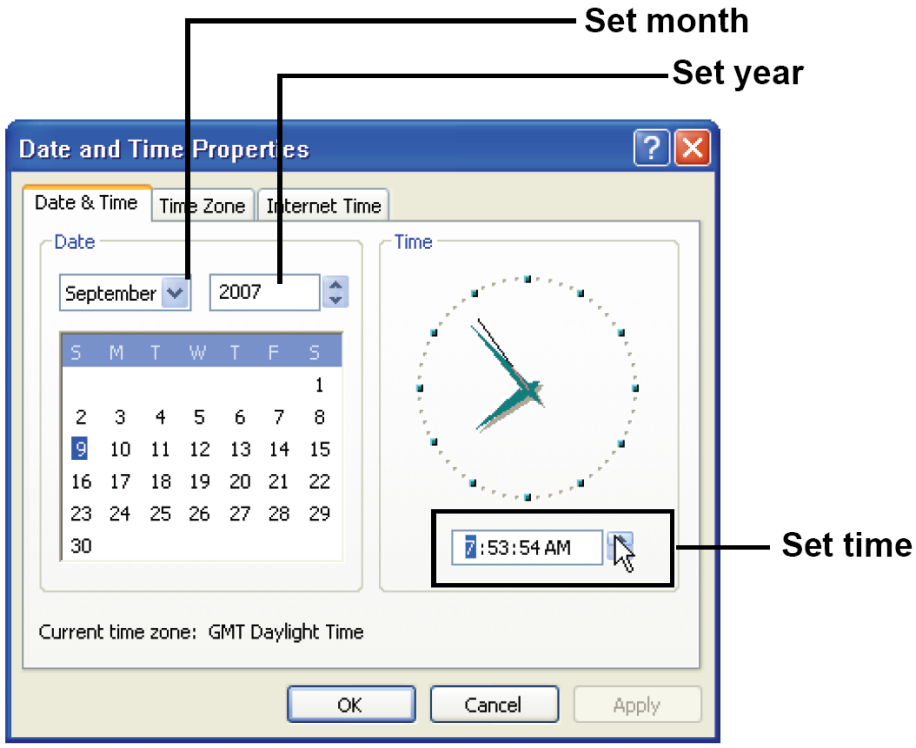
Follow these instructions to set the time and date.

1. Double-tap the time in the system tray.



2. Tap the arrow next to the month to select the correct month.

3. Tap the arrows next to the year to select the correct year.



4. Select a field in the time box and tap the arrows next to the time to change the value of the field.

5. Tap the Time Zone tab to select the correct time zone for your area.

6. Check the box next to **Automatically adjust clock for daylight saving changes** so that the time will automatically adjust for daylight saving time.

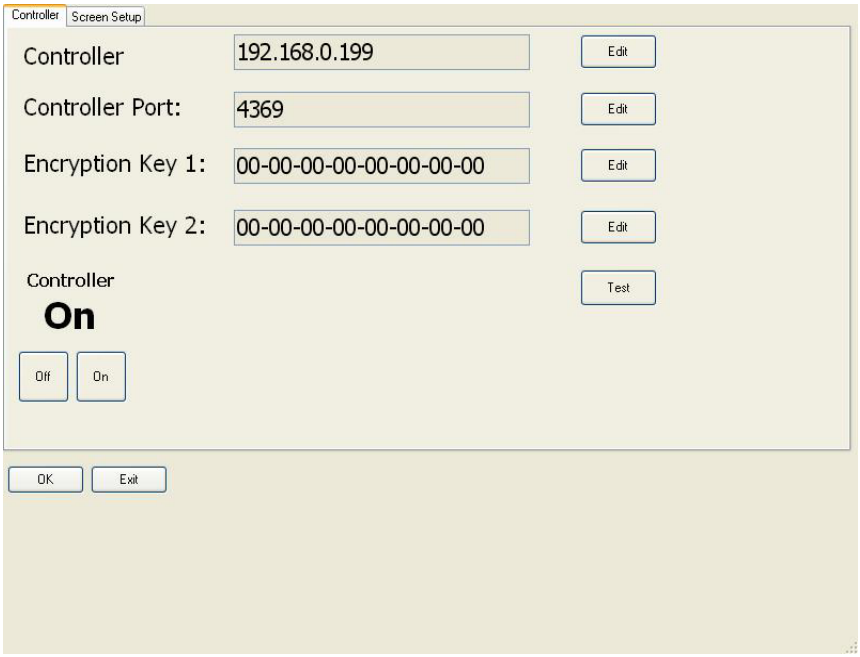
7. Click **Apply** to save the settings.

Connecting to the HAI Controller

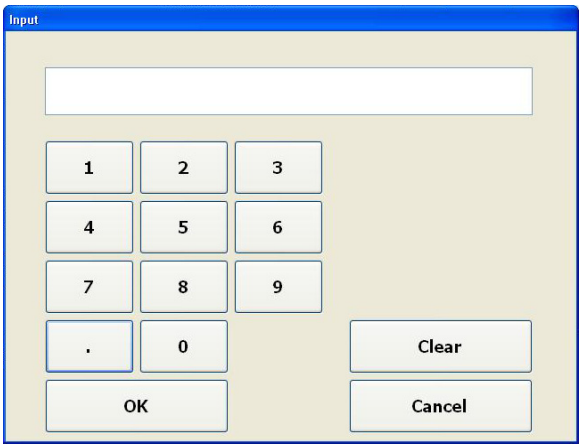
Once the wireless network has been configured, you can then enter the HAI controller connection information to connect to the controller.

To enter the controller connection information, double-tap the OmniTouchPro_10P icon, as shown.

When the application starts up, the OmniTouch 10p configuration screen will be displayed:



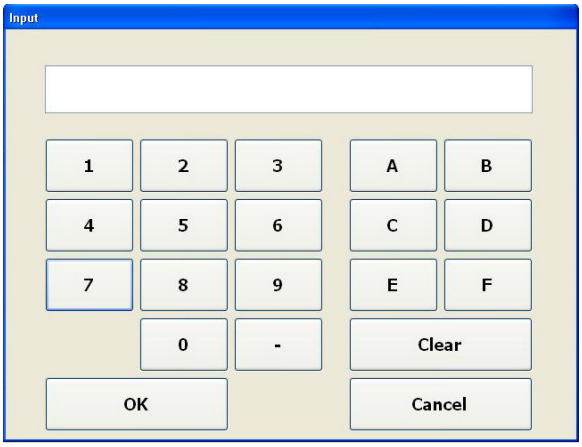
1. Enter the IP address of the HAI Controller by pressing the [Edit] button to the right of the "Controller" Edit Box:



The controller's local network IP address is used to identify the HAI controller on the network. The format of the IP address is a numeric address written as four numbers separated by periods. Press the [OK] button when complete.

2. Enter the Port number of the HAI Controller by pressing the [Edit] button to the right of the "Controller Port" Edit Box. The controller's local network port number identifies the logical channel to the HAI controller. In most installations, the default port number can remain the same. Port numbers range from 0 to 65535. Press the [OK] button when complete.

3. Enter Encryption Key 1 and Encryption Key 2 of the HAI Controller by pressing the [Edit] button to the right of the respective "Encryption" Edit Box:



The Encryption Keys are used to encrypt and decrypt the data between the HAI controller and the OmniTouch 10p. This key consists of 16 bytes (that is 16 2-digit values from 0-9 and/or the letters A-F). It is entered in two parts (Key 1 and Key 2) consisting of 8 bytes each, with each byte separated by a hyphen. Press the [OK] button when complete.

4. Test the connection to the HAI controller by pressing the [Test] button.

   If the connection is successful, “Connection Successful” will be displayed.

   If the connection is unsuccessful, “Connection Failed” will be displayed. Check the controller’s IP address, port setting, and encryption key.

5. If an HAI controller is not being used, press the [Off] button under “Controller”. This can be used if you are using an OmniTouch 10p to communicate with an HTX Home Theater Extender, but are not connecting to or do not have an HAI controller.

6. Press the [OK] button to save all of the controller settings and to start the application, press the [Exit] button to exit the configuration screen without saving the settings, or press the tab entitled “Screen Setup” to configure various operating parameters.

The **Volume** indicator displays the intensity level of the audio output. The [Vol Dn] and [Vol Up] buttons sets the volume.

The **Sounder** indicator displays the status of the sounder. The sounder is used to alert you of errors, troubles, and messages, and emits tones upon entry and exit delays. Press the [Off] button to disable the sounder. Press the [On] button to enable the sounder.

The **Key Click** indicator displays the status of the key click setting. A key click is a short tone emitted when a button is pressed in the application. Press the [Off] button to disable the key click. Press the [On] button to enable the key click.

The software version is displayed at the bottom on this page.

7. Press the [OK] button to start to the application or press the [Exit] button to exit the configuration screen.

Starting the OmniTouchPro Application

Once the correct HAI controller information has been entered and the connection to the controller has been established, the OmniTouchPro page is displayed.

Returning to the Configuration Page

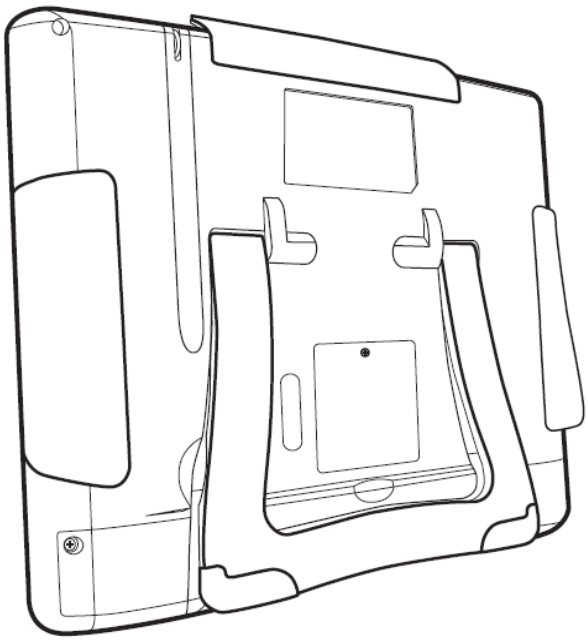
To return to the configuration page, press on any blank space on any page within the OmniTouchPro application, and hold for 5 seconds.

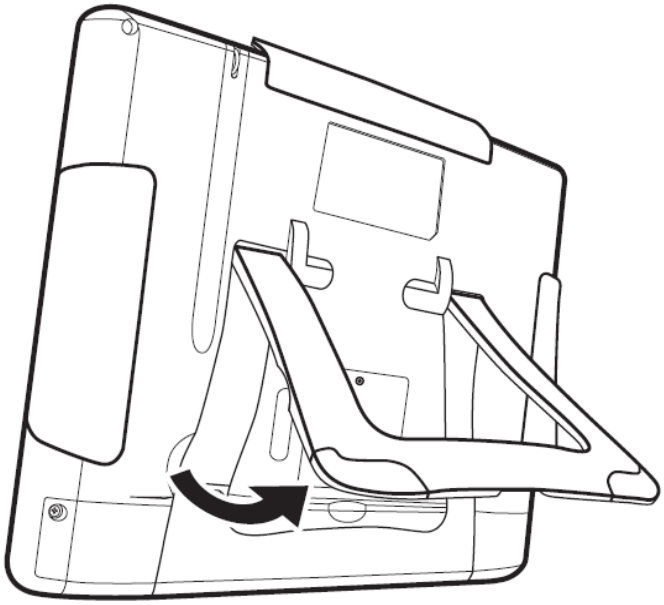
Chapter 3
Using the Hardware

Using the Stand

The OmniTouch 10p has a built-in stand for easy configuration on a desk or table top.

Open the stand and adjust the tilt to provide the best viewing angle.



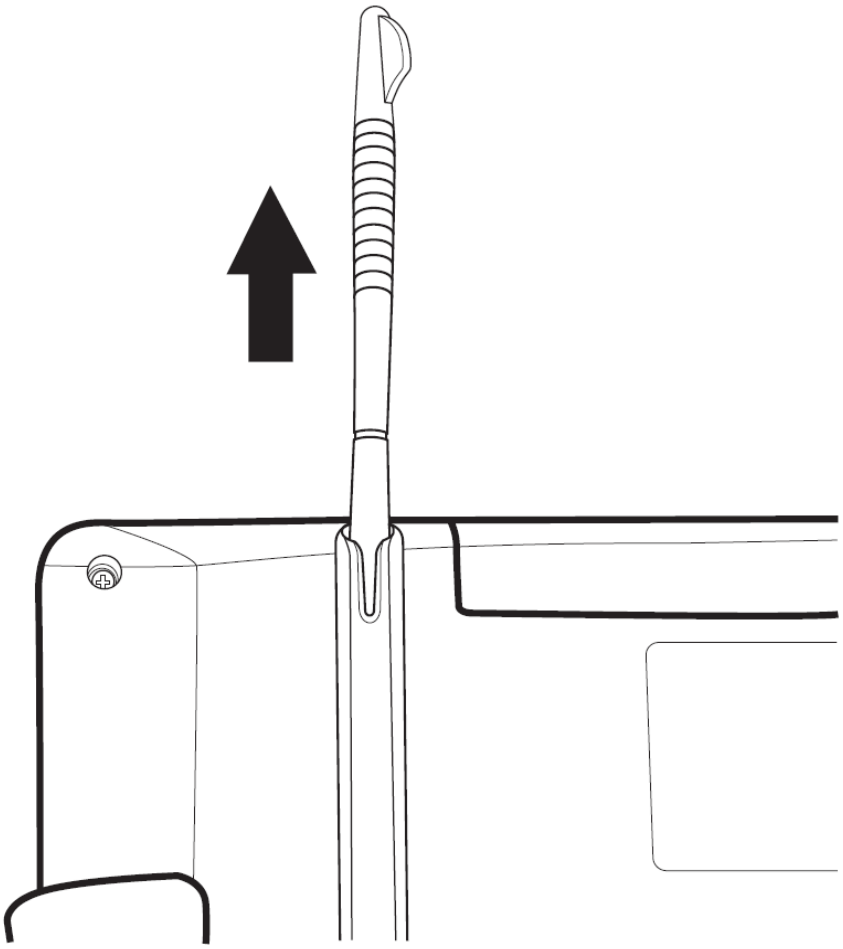


Using the Stylus

Use the stylus to interact with the OmniTouch 10p by tapping or double-tapping on an application icon and to select items on the menu. When not in use, place the stylus in the storage slot located on the top of the OmniTouch 10p.

CAUTION! Never use anything other than your finger or the OmniTouch 10p stylus on the screen. Using another object as a stylus could cause permanent damage to the display.

1. Remove the stylus from its holder.



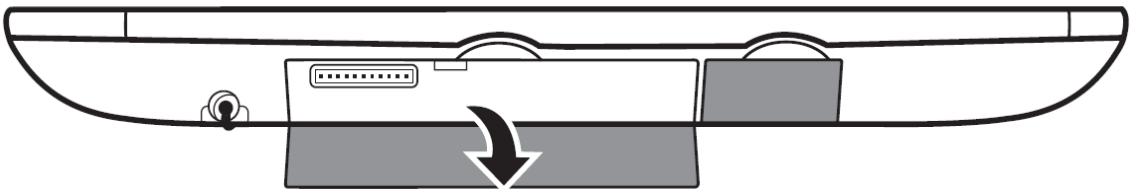
2. Hold the stylus as you would a pencil.

3. To make a choice from a menu, lightly tap the tip of the stylus on that choice.

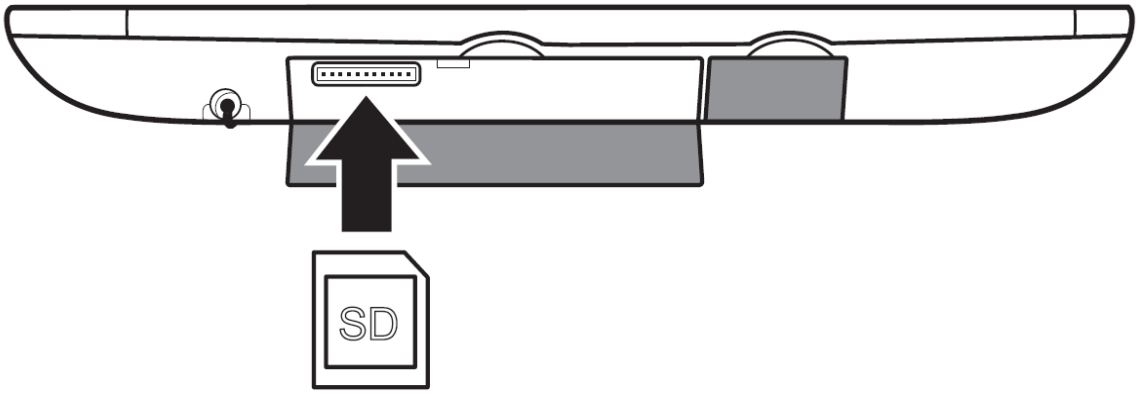
Inserting an SD Memory Card

Your OmniTouch 10p has an expansion slot compatible with a range of SD cards, which are primarily used to back up or transfer files and data. The slot also supports SDIO cards for added connectivity options. Follow these instructions to insert a SD card into the SD slot.

1. Lift the protective cover away from the SD slot.



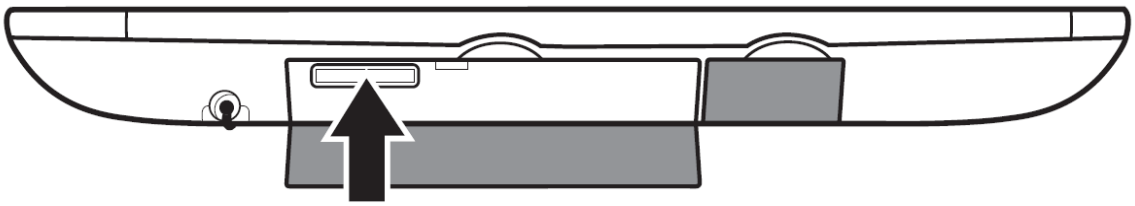
2. Slide the SD card all the way into the slot as shown.



3. Replace the cover.

Removing a Storage Card

1. Lift the protective cover away from the SD slot.
2. Press the card in and release. The card pops out.



3. Remove the card from the slot.

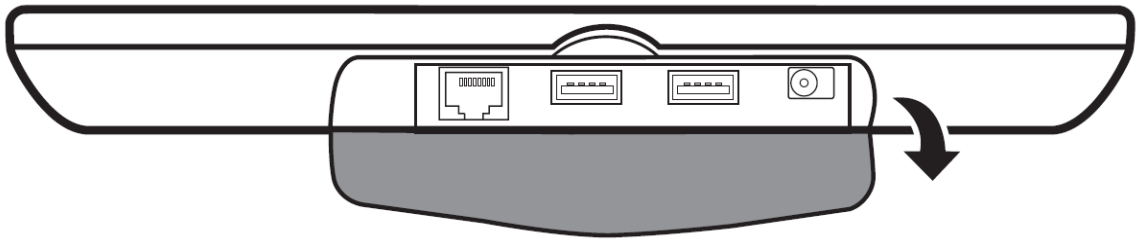
Connecting Devices to the OmniTouch 10p

This section describes how to connect devices to the OmniTouch 10p. You can connect devices directly to the OmniTouch or connect using the optional docking cradle.

Opening the Port Covers

The port covers protect the ports and connectors from rain, dust (IP53 standard), and other adverse environmental conditions.

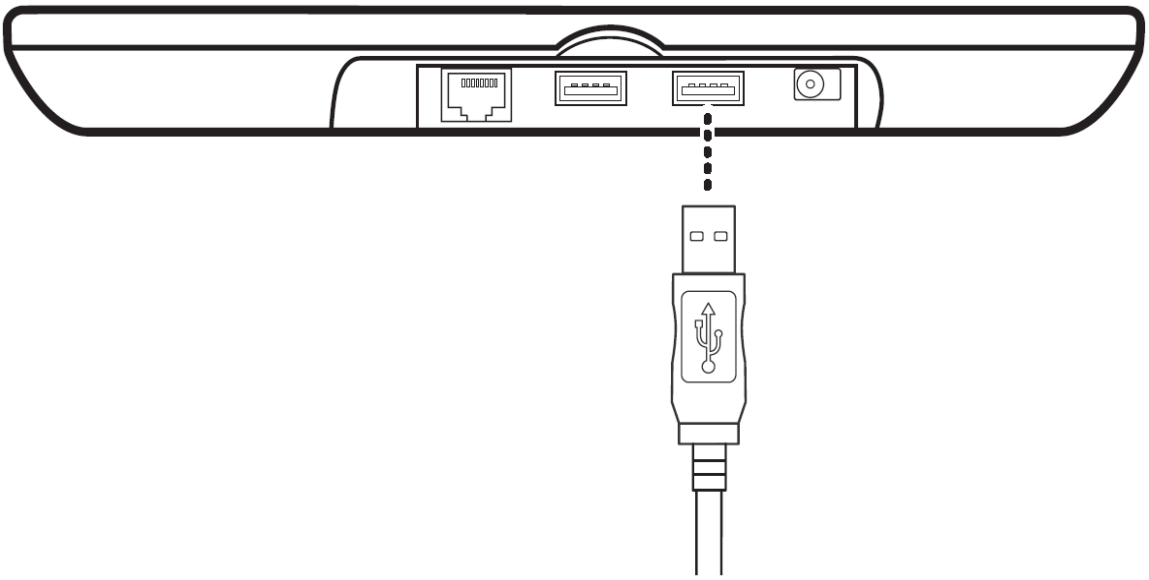
Open the port covers to access the ports.



Ensure that you close the covers tightly after disconnecting cables and connectors.

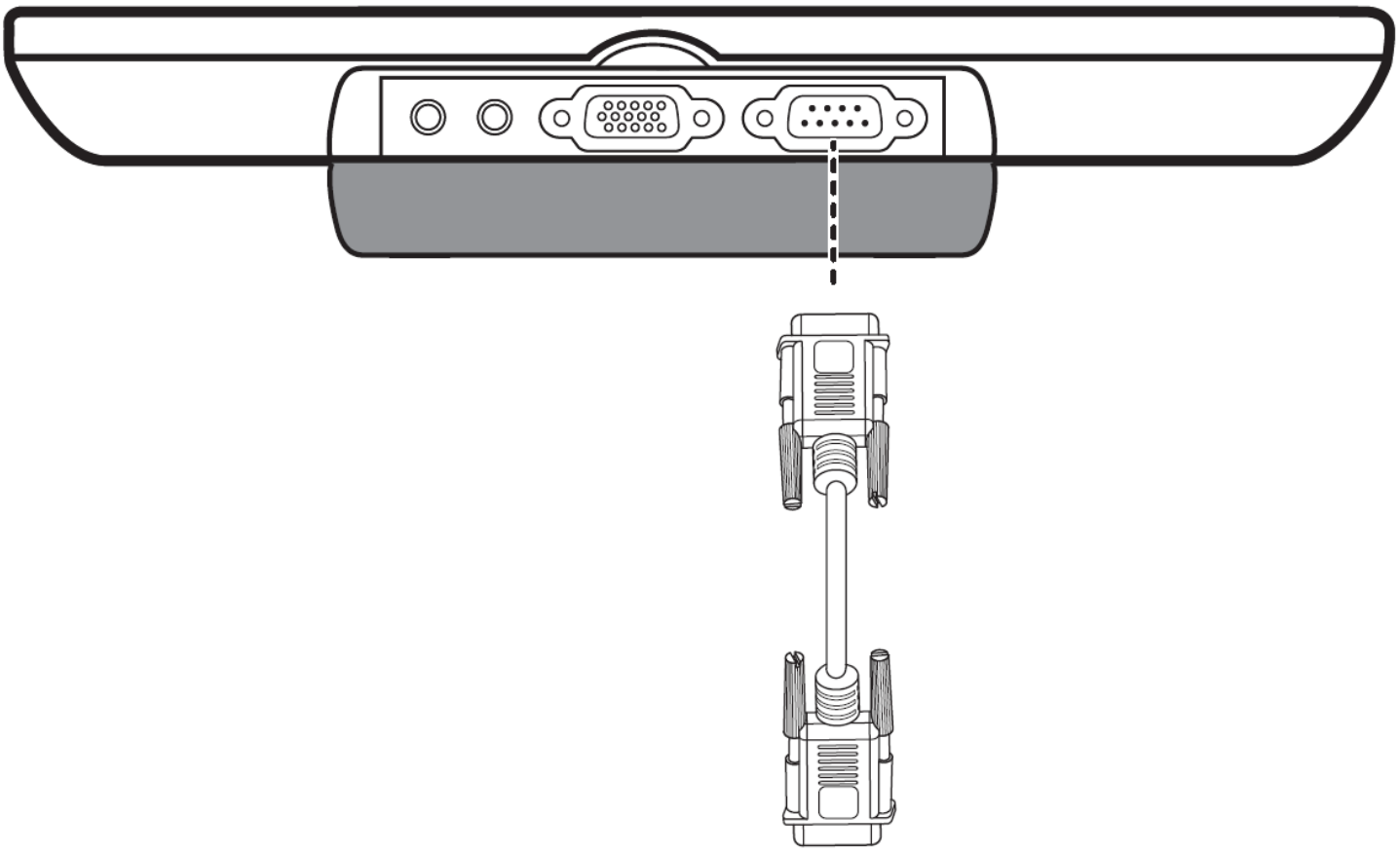
Connecting USB

The following illustration shows how to connect a USB Type A device to the OmniTouch 10p. The connector can only go in one way. If it does not go in smoothly, check the orientation and try again.



Connecting a Serial Device

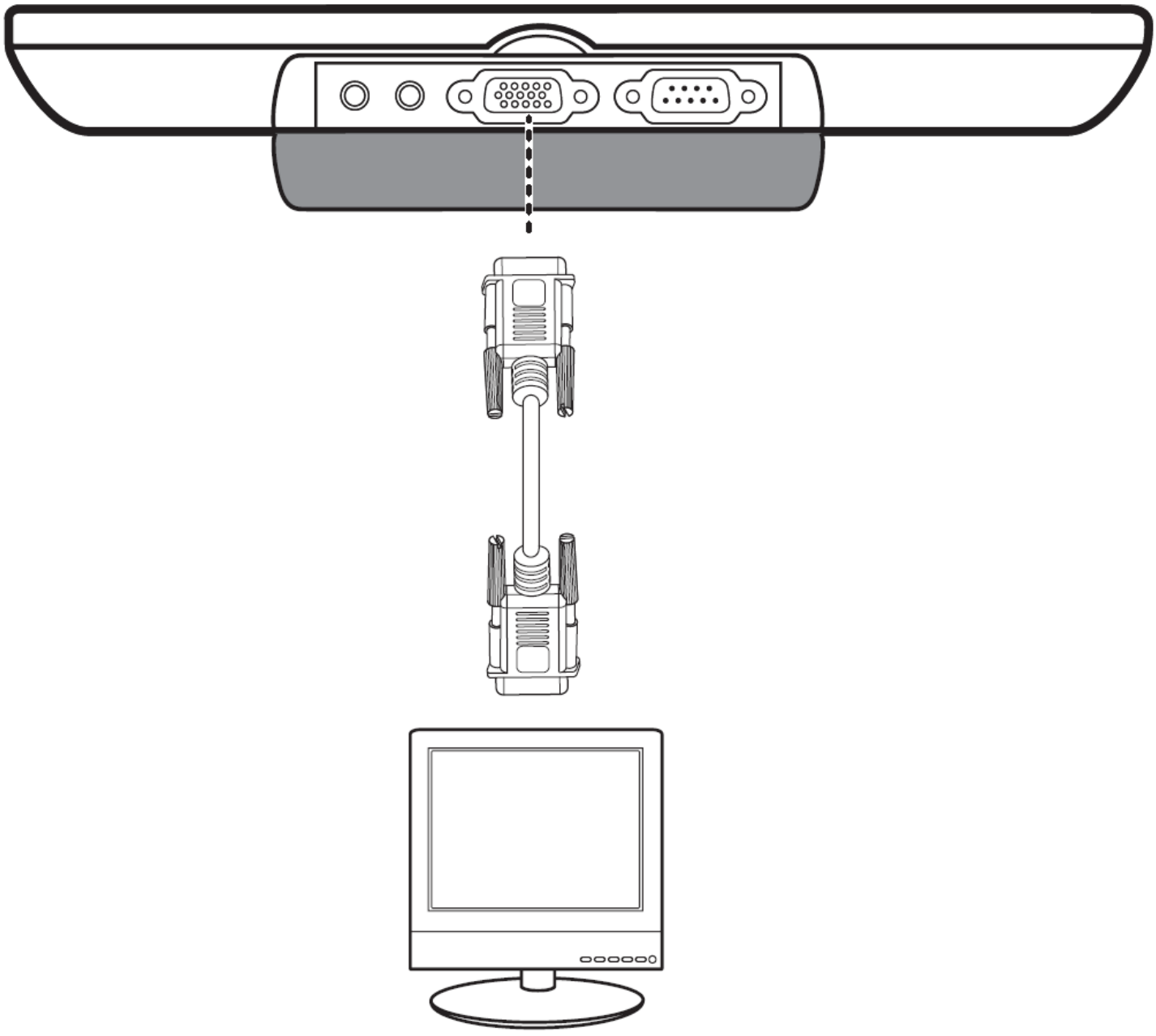
Connect a serial device to the OmniTouch 10p to perform serial communications.



Note: Use a female DB-9 cable when connecting to this port.

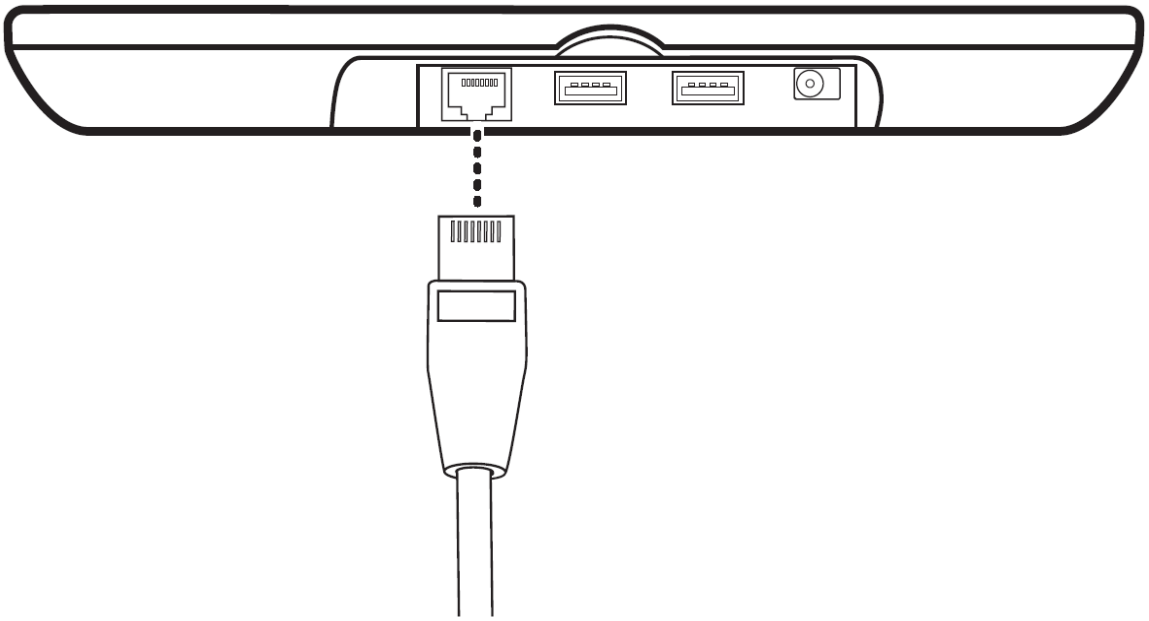
Connecting an External Monitor

Connect an external monitor cable to the VGA port on the OmniTouch 10p to view the output on an external monitor.



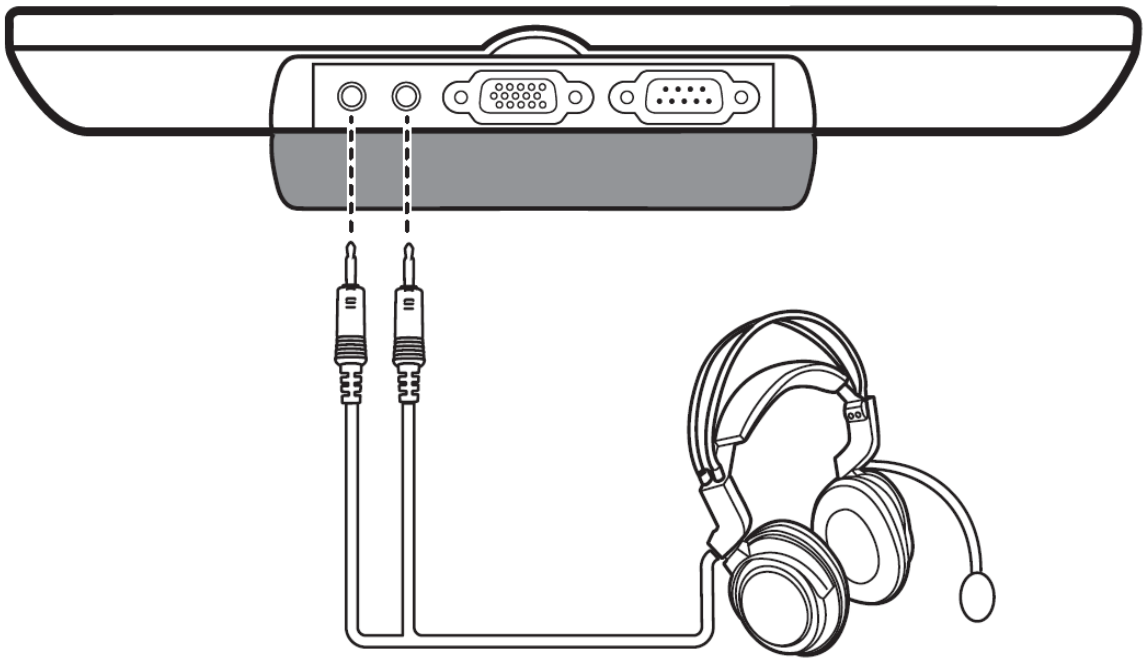
Connecting LAN

Connect an RJ-45 cable to the Ethernet port on the OmniTouch 10p to enable you to connect to a wired local network (LAN).



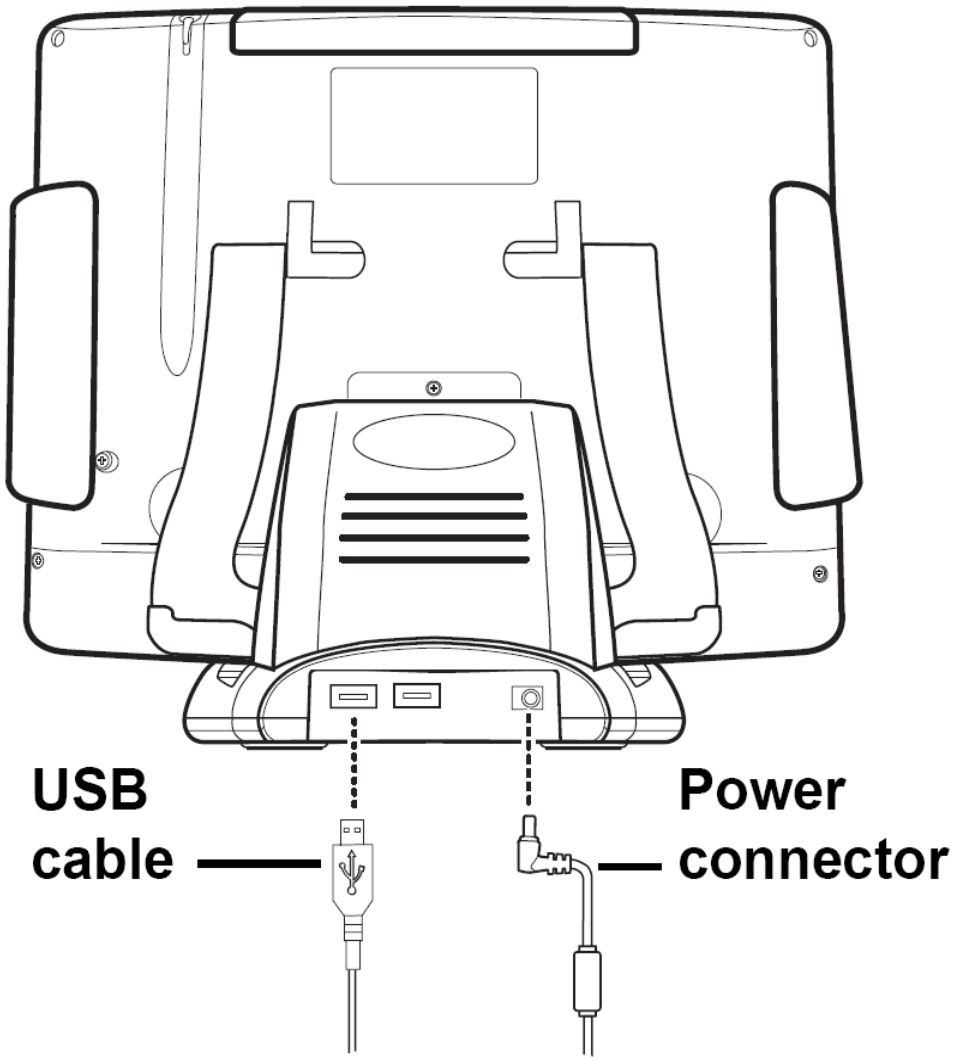
Connecting Headphones and a Microphone

The OmniTouch 10p has an external jack microphone and speaker.



Connecting to an Optional Cradle

The optional cradle enables you not only to recharge the battery on the OmniTouch 10p touchscreen, it also enables you to connect USB devices.



Connecting Power

Connect the AC adapter to the optional cradle to power the OmniTouch 10p and to charge the battery.

Connecting USB

You can connect peripheral devices, such as a USB keyboard and USB mouse, as well as other USB interface devices.

Appendix A
System Specifications

Component	OmniTouch 10p
Operating System	Windows XP Embedded
Processor	AMD GeodeTM LX800 500MHz AMD GeodeTM CS5536 Companion Chip
Memory	DDR400 SODIMM 512MB
Display	SVGA Model: 10.4-inch TFT LCD (800 x 600)
Touch Panel	Transtouch 4-wire resistive touch panel
Audio	AC-97, Internal microphone and one speaker (stereo supported via headphone jack)
Application Buttons	5 programmable function keys 1 programmable 5-position Navigation pad
Connectivity	Built-in Wireless 802.11a/b/g module (mini-PCI interface) with internal antenna Bluetooth class 2, v2.0+EDR built-in with integral antenna
Audio Controller	RealTek ALC655 AC97 CODEC
LAN Controller	Realtek RTL8110SCL GbLAN
Storage	2GB CF card

Component	OmniTouch 10p
External I/O Interfaces	1 RS-232 port 2 USB type A connectors 1 RJ45 for 10/100Mbps Ethernet port One SD slot 1 stereo headphone jack One microphone jack 1 VGA output 1 DC-in jack 1 Docking connector for cradle
Main Battery	Rechargeable Li-ion 2200mAh 4 cells pack (4S1P)
Power Adapter	Input: 100VAC - 240VAC, 50-60Hz Output: 19V, 3.16A
Physical Dimensions	Size: 11.61” (W) x 9.37” (H) x 1.18” – 1.53” (D) Weight: 3.5 lb
Environmental	Operating Temperature: 0 to +40°C (32 to 104°F) Storage Temperature: -20 to +60°C (-4 to 140°F) Charging Temperature: 0 to +50°C (32 to 122°F) Operating Humidity: 20% to 80%, noncondensing
Rugged Specification	IP53, 70cm drop to plank
Certifications	CE, FCC, VCCI, ETL-US, CB, C-Tick, Semko-GS and CCC
Accessories	AC-Adapter & power cord Stylus Battery

Appendix B
Maintenance

Maintaining the Battery Pack

- Do not expose a battery to heat or attempt to disassemble.
- Do not place a battery in water or in fire.
- Do not subject batteries to strong impacts, such as hitting them with a hammer, stepping on, or dropping them.
- Do not drop, puncture, or disassemble batteries.
- Do not attempt to open or service the battery pack.
- Replace only with the battery pack designed for this product.
- Keep out of reach from children.
- Dispose of used batteries according to local regulations.

Maintaining the LCD Display

- Do not scratch the surface of the screen with any hard objects.
- Do not spray liquid directly on the screen or allow excess liquid to drip down inside of the device.
- To prevent damage, do not place anything on the screen at any time.
- Cleaning the LCD display should only be done with a soft cloth dampened LCD screen cleaner solution.

Cleaning the OmniTouch 10p

- Turn off the OmniTouch 10p and unplug the power cord.
- Wipe the screen and the exterior with a soft, damp cloth moistened only with water.
- Do not use liquid or aerosol cleaners on the product; as it will discolor the finish and damage the screen.

HAI OmniTouch 10p